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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/740,902	12/21/2000	Junichi Asada	201163US2S	6347

22850 7590 10/22/2003

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1940 DUKE STREET
ALEXANDRIA, VA 22314

EXAMINER

CHU, CHRIS C

ART UNIT	PAPER NUMBER
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2815

DATE MAILED: 10/22/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/740,902

Applicant(s)

ASADA, JUNICHI

Examiner

Chris C. Chu

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 August 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 28 and 29 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 28 and 29 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s) _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Response to Amendment

1. Applicant's amendment filed on August 4, 2003 has been received and entered in the case.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 28 and 29 are rejected under 35 U.S.C. 102(b) as being anticipated by Oshino et al.

Regarding claim 28, Oshino et al. discloses in Figs. 1 and 2 a semiconductor memory device comprising:

- a semiconductor element (3);

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- a plurality of lead wires (5) connected to a plurality of connecting electrodes (4) formed on said semiconductor element;
- at least a single dummy lead wire (5B) that is not electrically connected to said semiconductor element and does not include an outer lead portion for electrically connecting said semiconductor element to an external circuit of said semiconductor element;
- an insulating film (6) having an opening portion configured to accommodate said semiconductor element and to support said plurality of lead wires connected to the plurality of connecting electrodes of the semiconductor element and said at least the single dummy lead wire; and
- a resin molding (7) configured to cover a connecting portion between tip portions of the plurality of lead wires and the plurality of connecting electrodes and a tip portion of said at least the single dummy lead wire within the opening portion of said insulating film,
- wherein said at least a single dummy lead wire (5B, the dummy wire on the right of the pair of wires on the left side of Fig. 1) is arranged in a space defined by two adjacent lead wires (any pair of 5s which are closest to the dummy lead wire 5B) of said plurality of lead wires so that a length of said space is at least twice a minimum pitch between adjacent lead wires of said plurality of lead wires, and the two adjacent lead wires being provided on one side (right side) of the insulating film to define the space on the one side of the insulating film.

Regarding claim 29, Oshino et al. discloses in Figs. 1 and 2 a semiconductor memory device comprising:

- a semiconductor element (3);
- a plurality of lead wires (5) connected to a plurality of connecting electrodes (4) formed on said semiconductor element;
- at least a pair of dummy lead wires (5A and 5Bs) that are not electrically connected to said semiconductor element and do not include an outer lead portion for electrically connecting said semiconductor element to an external circuit of said semiconductor element;
- an insulating film (6) having an opening portion configured to accommodate said semiconductor element and to support said plurality of lead wires connected to the plurality of connecting electrodes of the semiconductor element and said at least the pair of dummy lead wires; and
- a resin molding (7) configured to cover a connecting portion between tip portions of the plurality of lead wires and the plurality of connecting electrodes and a tip portion of said at least the pair of dummy lead wires within the opening of said insulating film,
- wherein one and the other of said at least the pair of dummy lead wires (5A and 5Bs) provided on one side and an opposite side of said insulating film, respectively, each of the one and the other of said at least the pair of dummy lead wires being arranged in corresponding first and second spaces defined by first and second two adjacent lead wires of said plurality of lead wires, respectively, so that a length of each said

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first and second spaces is at least twice a minimum pitch between adjacent lead wires of said plurality of lead wires, said first two adjacent lead wires being provided on said one side of said insulating film to define said first space on said one side of said insulating film, and said second two adjacent lead wires being provided on said opposite side of said insulating film to define said second space on said opposite side of said insulating film.

Response to Arguments

4. Applicant's arguments with respect to claims 28 and 29 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chris C. Chu whose telephone number is (703) 305-6194. The examiner can normally be reached on M-F (10:30 - 7:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on (703) 308-2772. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Chris C. Chu

Examiner

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c.c.

10/16/03 8:15:26 PM


GEORGE ECKERT
PRIMARY EXAMINER